

What is Claimed Is:

1. A fluid filter mounting apparatus comprising:

a mounting bracket having a fluid intake and a fluid output;

a first manifold and second manifold within said mounting bracket, each of said first manifold and said second manifold having a fluid inlet and a fluid outlet;

said fluid intake of said mounting bracket being in fluid communication with said fluid inlet of said first manifold, said fluid outlet of said first manifold being in fluid communication with said fluid inlet in said second manifold and said fluid outlet of said second manifold being in fluid communication with said fluid output of said mounting bracket;

a first mounting throughhole and a second mounting throughhole in said bracket, each of said first and second mounting throughholes being dimensioned to align a first cartridge housing and a second cartridge housing with each of said first and second manifolds;

each of said throughholes being dimensioned to secure a first portion of the filter cartridge housing when a closure member of said filter cartridge housing is seated in at least one of said first or second manifolds.

2. The fluid filter mounting apparatus of claim 1 further comprising:

a first filter cartridge having a closure member adapted to sealingly mount in said first manifold and said first filter cartridge having a first filter cartridge housing dimensioned to securely maintain said seating by a close cooperation of an outer dimension of a first portion of said first filter cartridge housing with an inner dimension of said throughhole; and

a second filter cartridge having a closure member adapted to sealingly mount in said second manifold and said second filter cartridge having a second filter cartridge housing dimensioned to securely maintain said seating by a close cooperation of an outer dimension of a first portion of said second filter cartridge housing with an inner dimension of said throughhole.

3. The apparatus of claim 2 wherein said filter cartridges are tapered with an outer diameter of said filter cartridge housing being narrower towards said closure member.

4. The apparatus of claim 1 further comprising at least one sleeve within said mounting bracket, said sleeve being disposed to guide a closure member of a filter cartridge into seating with one of said first or second manifolds during installation of the cartridge.

5. The apparatus of claim 1 further comprising a cap removably securable to said mounting bracket over a base end of each of said first and second filter cartridge housings, when said first and second filter cartridge housings are mounted in the mounting bracket.

6. The apparatus of claim 5 wherein said cap is provided with a lock disposed to lock said cap in place on said mounting bracket.

7. The apparatus of claim 1 further comprising at least one helical ramp on each of said first and second manifolds and at least one helical ramp on each of said closure members of said first and second filter cartridges, said manifold ramps and said cartridge ramps being dimensioned to engage in close cooperation to seat said filter cartridges in said manifolds such that fluid communication through said filter is established between said manifold inlets and said manifold outlets.

8. The apparatus of claim 1 wherein a base end of each of said first and second filter cartridge housing includes a twist fin.

9. The apparatus of claim 1 further comprising at least one O-ring or O-ring seat disposed to seal the closure member of at least one filter cartridge in at least one of said first or second manifold.

10. The apparatus of claim 1 wherein at least one of said manifolds has a first level and a second level, said first level and said second level corresponding to a first level and a second level on the closure member of one of the first or second filter cartridges, and said first and said second levels putting said fluid inlet and said fluid outlet of said manifold in fluid communication with a filter within the filter cartridge.

11. The apparatus of claim 1 wherein each of said inlets of said manifolds is dimensioned to establish fluid communication with a radial inlet port on one of the closure members of one of the filter cartridges.

12. The apparatus of claim 1 wherein at least one of said fluid outlets of said first or second manifolds is oriented to establish fluid communication with an axial outlet port on a top of one of the closure members of one of the filter cartridges.

13. The apparatus of claim 1 wherein said mounting bracket has a back surface including fixtures for wall mounting.

14. The apparatus of claim 1 wherein said mounting bracket fully encloses each of the filter cartridge housings when the filter cartridge housings are fully installed in said mounting bracket.

15. The apparatus of claim 1 wherein said manifolds and said mounting bracket are integrally formed.

16. The apparatus of claim 1 further comprising:

a first fluid inlet stop operatively engaged with said first fluid inlet of said first manifold;

a first fluid outlet stop operatively engaged with said first fluid outlet of said first manifold;

a second fluid inlet stop operatively engaged with said second fluid inlet of said second manifold; and

a second fluid outlet stop operatively engaged with said second fluid outlet of said second manifold.

17. The apparatus of claim 16 wherein each of said stops is disposed to be actuated by said closure members of said filter cartridges upon seating of said closure members of said cartridge filters in said manifolds.

18. A method of constructing a dual fluid filter mounting bracket comprising:

recessing within a fluid filter mounting bracket a first manifold and a second manifold, each of said manifolds being adapted to receive and seat a closure member on a filter cartridge;

establishing a fluid communication from a bracket intake to a first manifold inlet in a first manifold, from a first fluid outlet in said first manifold to a second fluid inlet on a second manifold and from a second fluid outlet on said second manifold to a bracket output;

aligning a first throughhole and a second throughhole in said bracket substantially opposite said first and second manifolds, said throughholes each being dimensioned to secure a filter cartridge housing in said bracket when said closure members of said filter cartridges are seated in said manifolds.

19. The method of claim 18 further comprising:

providing a first filter cartridge having a closure member adapted to sealingly mount in said first manifold and said first filter cartridge having a first filter cartridge housing dimensioned to securely maintain said seating by a close cooperation of an outer dimension of a first portion of said first filter cartridge housing with an inner dimension of said first throughhole; and

a second filter cartridge having a closure member adapted to sealingly mount in said second manifold and said second filter cartridge having a second filter cartridge housing dimensioned to securely maintain said seating by a close cooperation of an outer dimension of a first portion of said second filter cartridge housing with an inner dimension of said second throughhole.

20. The method of claim 18 further comprising:

tapering said filter cartridge housings with an outer diameter of said filter cartridge housing being narrower towards said closure member.

21. The method of claim 18 further comprising:

installing at least one sleeve within said mounting bracket, said sleeve being disposed to guide a closure member of a filter cartridge into seating with one of said first or second manifolds during installation of the cartridge.

22. The method of claim 18 further comprising:

providing a cap removably securable to said mounting bracket over a base end of each of said first and second filter cartridge housings, when said first and second filter cartridge housings are mounted in the mounting bracket.

23. The method of claim 18 further comprising:

providing a lock disposed to lock said cap in place on said mounting bracket.

24. The method of claim 18 further comprising:

fabricating at least one helical ramp on each of said first and second manifolds and at least one helical ramp on each of said closure members of said first and second filter cartridges, said manifold ramps and said cartridge ramps being dimensioned to engage in close cooperation to seat said filter cartridges in said manifolds such that fluid communication through said filter is established between said manifold inlets and said manifold outlets.

25. The method of claim 18 further comprising:

providing a twist fin on a base end of each of said first and second filter cartridge housings.

26. The method of claim 18 further comprising:

including at least one O-ring or O-ring seat disposed to seal the closure member of at least one filter cartridge in at least one of said first or second manifolds.

27. The method of claim 18 further comprising:

fabricating on at least one of said manifolds a first level and a second level, said first level and said second level corresponding to a first level and a second level on the closure member of one of the first or second filter cartridges, and said first and said second levels putting said fluid inlet and said fluid outlet of said manifold in fluid communication with a filter within the filter cartridge.

28. The method of claim 18 further comprising:

dimensioning each of said inlets of said manifolds to establish fluid communication with a radial inlet port on one of the closure members of one of the filter cartridges.

29. The method of claim 18 further comprising:
orienting at least one of said fluid outlets of said first or second manifolds to establish fluid communication with an axial outlet port on a top of one of the closure members of one of the filter cartridges.

30. The method of claim 18 further comprising:
fabricating on said mounting bracket a back surface including fixtures for wall mounting.

31. The method of claim 18 further comprising:
dimensioning said mounting bracket such that mounting bracket fully encloses each of the filter cartridge housings when the filter cartridge housings are fully installed in said mounting bracket.

32. The method of claim 18 further comprising:
integrally forming said manifolds and said mounting bracket.

33. The method of claim 18 further comprising:
operatively engaging a first fluid inlet stop with said first fluid inlet of said first cartridge, and a first fluid outlet stop with said first fluid outlet of said first manifold; and
operatively engaging a second fluid inlet stop with said second fluid inlet of said second manifold and a second fluid outlet stop with said second fluid outlet of said second manifold.

34. The method of claim 33 further comprising:
disposing each of said stops such that seating of said closure members of said filter cartridges in said manifolds operatively engages said stops.